



U.S. Army Engineer
Research and Development Center

Remediation Research

Description of Technology

Researchers investigate remediation technologies for all types of contaminants, whether they are found in soil, sediment, water, groundwater, or man-made structures. Alternatives are constantly being sought to make cleanup technologies more complete, more cost-effective, and faster. Current research includes biotechnology (e.g., intrinsic, bioslurry, biocell, and constructed wetlands), advanced oxidation processes (e.g., peroxone), polymeric and natural sorbents, heavy metal extractions, and electrokinetic remediation of soils.

Benefits

Through its Hazardous Waste Research Center (HWRC), the Waterways Experiment Station, U.S. Army Engineer Research and Development Center (ERDC) conducts innovative basic and applied research on new and emerging remediation technologies for fielding technically sound and cost-effective cleanup techniques. The HWRC is the only Department of Defense (DoD) research facility permitted under the Resource Conservation and Recovery Act to conduct large-scale treatment process research on contaminated materials.

Significant Accomplishments

Because of its experience and capabilities, ERDC is the lead DoD research laboratory for the development of innovative technologies to treat explosives, heavy metals, and selected organic compounds. Technologies developed at ERDC have been transferred to all military services for cleanup of groundwater and soils at many military sites and to the Environmental Protection Agency and states for remediation of Superfund sites. ERDC is currently working with several private companies under cooperative research and development agreements to expedite transfer of remediation technologies to the commercial/private sector.

Point of Contact

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